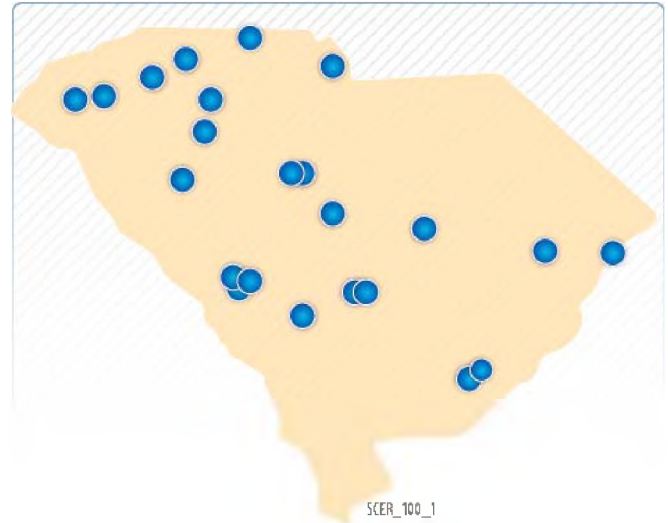


# Unparalleled Services

## South Carolina Presence



*23 CB&I SOUTH CAROLINA OFFICE and PROJECT LOCATIONS*



### CB&I South Carolina Presence

- Over 3,750 employees in South Carolina
- 23 office locations throughout South Carolina
- Over 1200 projects in progress or completed since 1994
- Approximately \$20+ Billion in work in South Carolina for Utilities, Power Sector, Transportation, and Solid Waste companies, as well as Federal, State and local agencies
- Established relationships with Duke Energy, South Carolina Electric and Gas, South Carolina Department of Environmental Control (DHEC), SCANA Services, CSX Transportation, US Fish and Wildlife Service, and the United States Air Force, Army, and Navy
- Strong relationship with South Carolina delegation including state and local officials
- “Boots on the Ground” response plans
- 54,000 CB&I employees worldwide
- Available 24 hours a day, 365 days a year through emergency hotline (800.537.9540)

## Diverse Projects throughout South Carolina

### **Duke Energy, External Flood Protection Project Oconee Nuclear Station, Seneca, South Carolina**

- CB&I performed the scoping, engineering, and implementation of protection for postulated external flooding events (i.e., dam failure and probable maximum flood events) at Duke's Oconee Nuclear Station.
- Specific scope included a 12' high by 206' concrete reinforced wall with significant foundation embedment capable of withstanding a dynamic flood event, a large sliding gate valve for isolation of the turbine building flooding drain system, coverage of multiple large slope areas with erosion prevention methods such as Shotcrete, gabion baskets filled with stone, and concrete retaining walls.
- CB&I assembled a multi-disciplined team drawing from CB&I's Power and Environmental and Infrastructure business units. In this way, CB&I ensured the skills and experience necessary were applied to assess and implement the most viable alternatives

### **Department of Energy, Mixed Oxide (MOX) Fuel Fabrication Facility, Aiken South Carolina**

- Designing and constructing a \$4.8 Billion Mixed Oxide Fuel Fabrication Facility for converting weapons grade plutonium into reactor fuel
- 600,000ft facility includes 17 buildings, 700 rooms, seven control rooms, 23,000 instruments, and 300 remotely operated gloveboxes and 100 non-mechanized glove boxes
- Providing comprehensive engineering, project management, construction management, procurement, and nuclear safety analysis
- 1,500-person project has worked 17 million hours with no lost time incidents and has a current OSHA recordable incident rate of 0.65. Since construction began, there have been more than 19 tons of rebar installed and over 118,000 cubic yards of concrete poured. In addition to the approximately 2,800 personnel on site, there are also approximately 800 additional personnel employed by MOX suppliers in 42 states nationwide
- Established a database of over 2,040 prequalified vendors for construction, material, tanks, process equipment, and glovebox assemblies
- Helped develop the MOX Services subcontracting community's capabilities, we have supported vendors in developing programs that comply with MOX Facility requirements

### **Jefferies and Grainger Generating Stations, Decommissioning, Decontamination and Demolition Services, Santee-Cooper, South Carolina**

- Prepared a comprehensive report on the asset recovery, liquidation, and dismantlement
- Evaluating the potential for obtaining mitigation credits for leaving the cooling pond on site and creating pond/lake for wetlands
- Identifying the specific design requirements and providing summary costs for modifications and O&M
- Identified utilities associated with these assets requiring cut/cap activities

### **South Carolina Electric & Gas/ SCANA Services, VC Summer, Jenkinsville, South Carolina**

- \$1.8 Billion Engineering, Procurement, Project Management, Construction and Commissioning of two new 3415-MW AP 100 nuclear power plants
- Location of the project is immediately adjacent to the V.C. Summer Unit 1 site in Jenkinsville, SC, approximately 20 miles north of Columbia, SC
- CB&I made history as the project team successfully completed placement of the first new construction nuclear concrete to be poured in the U.S. in three decades for the Unit 2 nuclear island basemat
- \$10 million Mass Excavation/Construction project
- Excavation and Transportation of more than 42,000,000 cy of Soils
- Grading of over 350 Acres
- CB&I performed 100% of the earthwork, including site grading, erosion and stormwater control for over 1,000 acres for SCE&G's VC Summer
- Compacted fill of Approximately 2.6 Million Yards
- Export to spoils of Approximately 1.6 Million Yards
- Clearing, Grubbing, and Grading of Approximately 350 Acres
- A 3D model was generated using aerial and ground survey data, which saved time determining cut/fill requirements.

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#### **Duke Energy SmartBuilding Advantage Program, Various locations throughout South Carolina**

- SmartBuilding Advantage was a new program from Duke Energy that partnered with large energy customers to significantly increase energy efficiency
- CB&I assisted Duke Energy with the implementation of its SmartBuilding Advantage® Program.
- Program targeted larger commercial, industrial and educational energy users for energy efficiency upgrades
- CB&I worked closely with Duke's program team and account representatives to identify and recruit large accounts into the program. The program focused on accounts of at least 100,000 square feet and specifically targets uses including commercial real estate, industrial/manufactures, K12 schools and universities.

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#### **Shaw AFB Performance-Based Contract Environmental Investigation and Restoration, Sumter, South Carolina**

- CB&I wrote emergency response plans and developed designs for the remedial investigations and remedial actions
- Completed risk assessments; environmental analyses; and are providing operation and maintenance services for remedial systems
- CB&I used sustainable, innovative, precedent-setting approaches
- Developed innovative groundwater and soil treatment technologies for value-added cost-savings

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#### **Various Repairs, Charleston Navy Weapons Station Fuel Wharf, Hannahan, South Carolina**

- Replaced two 8-inch marine unloading arms with two new arms hydraulically operated marine unloading arms.
- CB&I completed the work directly over the Charleston harbor waters with special precautions to prevent leakage of fuel into the local estuaries and special precautions were taken to prevent disturbance of wetlands, and protection of the environment.
- The work included installation of concrete pipe support foundations, relocation of utility line, electrical modifications, and structural steel platform modifications.

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#### **South Carolina Department of Health and Environmental Control (DHEC) O&M Groundwater Pump and Treat System, Elmore Waste Disposal Site, Greer, South Carolina**

- Providing operations, maintenance and monitoring of the Elmore groundwater pump and treat system since 1999; with most recent contract ending in 2013
- Interfaced with local authorities on city permits, sewers, roadwork, maps, etc., as well as providing on-site supervision of various drilling and carbon contractors plus other vendors
- As of the spring of 2013, more than 107 million gallons of contaminated groundwater were treated
- Provided emergency response/removal actions
- Used innovative groundwater and soil treatment technologies
- Provided analytical services

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#### **U.S. Department of Energy, Emergency Preparedness Support Services, Aiken South Carolina**

- Provided emergency preparedness program technical support services for the DOE's Savannah River Plant.
- Work included providing support services to the DOE Savannah River Operations Office in the development of emergency response plans and procedures; the distribution and control of emergency plans and procedures; the development and/or enhancement of specific procedures/guidelines; the development of training programs and exercises; interaction with off-site emergency response agencies; and other related special support services, as required.

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#### **Environmental Studies, USS Yorktown, Patriots Point Development Authority, Survey of CV-10 Aircraft Carrier**

- Performed comprehensive environmental studies of the USS Yorktown Aircraft Carrier
  - Developed a thorough understanding the types and quantities of environmental contaminants on board the vessel, determine structural integrity of the ships compartment/ tank systems
  - Provided a Risk Assessment of the current and possible future consequences associated with the contaminants and condition of the ship, and develop a budgetary assessment of costs necessary to mitigate remediation issues identified.
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CB&I Environmental & Infrastructure provides commercial and government clients with comprehensive environmental and infrastructure services, including:

**Environmental Consulting Services**

- Environmental Compliance
- Site Assessment & Remediation
- Natural Resources & Coastal Engineering

**Program & Construction Management Services**

- Construction Management
- Energy Management
- Emergency Management & Recovery
- Sustainability

**Environmental & Infrastructure Engineering**

- Environmental
- Waterways & Coastal Engineering
- Marine Facilities
- Port Equipment

**Engineering, Procurement, Fabrication & Construction Services**

- Commercial Construction/Decommissioning & Demolition
- Solid Waste
- Oil & Gas
- Air Measurements

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